BRUHATH BENGALURU MAHANAGARA PALIKE

YELAHANKA DIVISION . YELAHANKA ZONE

MODIFIED SCHEDULE-B

NO: BBMP/EE/YNK.D/EPMT- 2020-21,DT: 2020

Name of work :- Estimate for the work of Providing and laying of sanitary pipe line 230mm & 300mm dia RCC pipe line at Kurlappa layout near Kogiluroad (Ward no.1) Yelahanka CMC area

Si no	Description of Item	Unit	Qty	Rate in Rs	
				In fig	In words
1	Conducting the level and strip of survey of alignment of Main Sewers of required diameter including all data required for generating GIS map of sewer network, preparation and submission of plan & LS with Ground level at 30m interval and junction points along the centre line of the alighment etc.,showing the right of way, any permanent features, culverts, branch sewer pipe complete as per specifications and as directed by the Engineer incharge with all lead and lifts etc., complete.	Rmt	602	4.2	Rupees four & paise twenty only
2	Cutting road surface for pipeline trenches and disposing of the excavated stuff as directed including barricading, danger lighting etc., in the followingclassifications.as directed by the Engineer incharge with all lead and lifts etc.,	Cum	8.83	482.2	Rupees four hundred eighty two & paise twenty only
3	Cutting macadam road (BWSSB SR 2016-17,I no 4(1),P.no 9)	Cum	71.89	263.42	Rupees Two hundred sixty three & paise Forty two
4	Earth work excavation for pipeline trenches (except building works) including barricading depositing on bank with all lead including danger lighting and using sight rails and boning rods including shoring, strutting, bailing out water at every 100 meters wherever necessary as directed in the following	Cum	1012.06	163.46	Rupees One hundred sixty three & paise Forty Six only
5	Above 2.m -up to 4.0m (BWSSB SR 2016-17,SL no:1 1b,P.no 6)				
	Up to 125%	Cum	176.43	216.38	Rupees Two hundred sixteen & paise Thirty eight only
	Beyond 125%	Cum	270.34	236.3	Rupees Two hundred Thirty six & paise Thirty only
6	do- disintegrated rock.soft rock ,soft shale and medium hard rock comprising of lime stone, sand stone ,hard shale , schiest fissured rock without resorting to blasting up to 2 Mtr. Depth	Cum	147.45	384.55	Rupees Three hundred Eighty Four & paise Fifty Five only

H. E. Shettivala
{Contractor}

7	Above 2 up to 4 Mtr. Depth	Cum	37.40	429.24	Rupees Four hundred Twenty nine & paise Twenty four only
8	do- in hard rock by chistelling up to 2 Mtr. Depth	Cum	50.80	1542.91	Rupees One Thousand Five hundred Forty two & paise Ninty one only
9	do- in hard rock by chistelling 2.0 to 4 Mtr. Depth	Cum	11.58	1655.81	Rupees One Thousand Six hundred Fifty five& paise Eighty one only
10	Providing erecting and removing casurinapole three tier Barricading using poles of 7.50 to 10 cms. Dia. and 1.50m height above ground fixed vertically at intervals of 2.0 to 2.5 mtrs. C/C and horizontally at 0.50 mtrs above ground level, including fixing poles in the ground for a minimum depth of 0.30mtr. and tied with coir rope firmly including cost and conveyance of all materials, labour, lead and lift charges etc. complete.	M	602.00	54.6	Rupees Fifty four & paise sixty
11	Carting of excavated Earth of all types upto a distance mentioned below and re-carting back the earth to the same site by vehicle including loading,unloading charges for to & fro, with all lifts, labour, HOM of machinery etc. complete. Above 4 KM up to 5KM , (Residential area)	Cum	198.119	344.57	Rupees Three hundred Forty four & paise Fifty Seven only
12	Providing course Sand Bedding for the pipeline trenches including watering and consolidation by punners etc., complete with all lead and lift	Cum	6.75	1095.91	Rupees One Thousand Ninty five& paise Ninty one only
13	Providing and laying Plain Cement Concrete of mix 1:2:4 (M-15) with OPC @ 240kgs, with 40mm and down size	Cum	32.22	5473.65	Rupees Five Thousand Four Hundred Seventy three & paise Sixty three only

H. E. Shaikhvala

(Contractor)

14	Refilling of available earth around pipelines, in layers not exceeding 20 cms in epth,compacting each deposited layer by ramming after watering all lead and lift including cost of all labour including consolidation by mechanical means approved by Engineer Incharge, when earth is at suitable moisture content with desired field density upto 95% maximum dry density (modified heavy proctor test) for restoration of roads without settlement including HOM of machineries, complete. (The contractor shall take care while consoldating the earth, so that, pipes laid are not damaged due to mechanical ompaction and shall restore the damaged pipes at his own cost, in case of damage	Cum	1310.32	72.91	Rupees Seventy two & paiseNinty one only
15	Supplying lowering laying, jointing, testing and commissioning of following diameters glazed stone ware pipes, conforming to IS 651:1992, (with 5th revision) in all respects jointing with EPDM rubber rings (seals according to EN 681 & ASPM 425) The rubber seals joints pipe will have groves in interior of socket and exterior of the spigot. The rubber gasket shall be prefixed at the factory by the manufacturer rigidly with approved glue to have leak proof joint including conveying of pipe to work site and rolling and lowering into trenches, laying true to line, level and perfect linking at joints testing and commissoning including loading and unloading at both destinations and cuts of pipes wherever necessary including jointing of GSW pipes and specials, with rubber gaskets conforming to EN 681 and ASTM C-425 including cleaning the socket and spygot with soap solution and applyign talcum powder for detecting crack, then applying glue and before inserting of rubber gaskets, jacking and fixing in perfect condition including the cost of soap solution, talcum powder and glue etc. and giving necessary hydraulic test to the required pressure ofwater head with all lead and lifts including	Rmt	0.00	0	
16	Supplying of following diameters S&S RCC SPUN/VIBRATED CAST PIPES (REINFORCED) of NP-3 class,300mm diameter	Rmt	0.00	0	

H. E. Shahirala

(Contractor)

17	Providing and constructing "wire cut brick manhole chambers" using sulphate resistant cement, conical in shape at top with C.C. 1:3:6 foundation using 40 mm and down size graded metal of approved quality and with an offset of 0.15 m alround the chamber and brick masonry in C.M. 1:4 plaster with wire cut bricks of approved quality and CM plaster 1:3 proportion 12 mm thick inside and outside except for the conical surface outside where the thickness of plaster shall be 20 mm thick, with 1:6 slope in the concrete towards the central drain, finished smooth and fixing of pipes in CC 1:2:4 graded metal of 20 mm and down size including conveying to work spot supplying & fixing SFRC manhole frame and cover confirming to IS:12592 with latest amendments in CC 1:2:4, supplying and fixing of minimum 3 mm thick encapsulated plastic footsteps (as per IS 10910) on 12 mm dia, Grade Fe-415 steel bar (as per IS 1786) staggered at 30 cms apart as detailed in Technical Specifications and as directed, watering, curring, barricading, danger lighting, pouring tar over MH frame and cover, cost of tar, shoring, strutting, dewatering, engraving				
18	a)For 1.0 meter	No	12.00	16285.45	Rupees Sixteen Thousand Two Hundred Eighty five & paise Forty five
19	b)Above 1.0m below 2.0m	Mtr	6.50	12069.65	Rupees Tweive Thousand Sixty nine & paise Seventy only
20	a)For 2.0 meter	No	6.00	28355.09	Rupees Twety eight Thousand Three hundred fifty five & paise Nine only
21	b)Above 2.0m below 3.0m	Mtr	3.00	15263.8	Rupees Fifteen Thousand Two hundred Sixty three & paise Eighty only
22	a) For 3.00m depth				
	Qty Up to 125%	No	6.25	53938.56	Rupees Fifty Three Thousand Nine hundred Thirty eight & paise Fifty Six only
	Qty Beyond 125%	No	3.75	47209.05	Rupees Forty seven Thousand Two hundred nine & paise five only

H. E. Shashikala
(Contractor)

23	b)Above 3.0m below 4.0m	Mtr	1.50	21807.4	RupeesTwenty one Thousand Eight hundred Seven & paise Forty only
24	Removing B S slab of drain and stacking with all lead & lift and as per the directed by engineer in charge .	Sqm	40.15	65.1	Rupees Sixty Five & paise Ten only
25	Refixing stone slabs of drain & pointing in CM (1:3) with all lead & lifts complete and as directed by the engineer in charge	Sqm	40.15	79.8	Rupees Seventy nine & paise eighty only
26	Dismantling ofcement concrete payment by mechanical means using pneumatic tool, breakingto pieces not exceeding 0.02cum in volume and stock piling at designated locations and disposal of dismanlled materials stacking unserviceable materials seperately complete as per specifications. Morth Specification NO.202	Cum	43.20	820.05	Rupees Eight hundred Twenty & piase five only
27	Providing and laying Reinforced Cement Concrete of Design mix M-25 with OPC cement @340kgs with 20mm and down size graded granite metal coarse aggregates @0.7cum and fine aggregtes @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008. machine mixed ,concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footing, pedastals, retaining walls, return wallsincluding attached plasters,column ,piers,abutment, pillars, posts, struts, buttresses, bed block, anchor blocks , plinth etc., including costs of all materials, labour, HOM machinaery ,curing,complete but excluding cost of reinforcement as per specifications. No. KBS 4.1,4.6	Cum	49.28	6532.05	Rupees Six Thousand Five hundred Thirty two & paise five only
28	Dismantling Size stone masonary in lime / cement mortar and stacking the size stone and removing and disposing the debries with all lead & lifts etc complete including cost of all equipment and labour etc., complete as per specifications and as per directed by engineer in charge.	Cum	22.32	180.6	Rupees One hundred Eighty & paise Sixty only
29	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar, stone hammered dressed in courses not less than 20 cms high, bond stones at 2m. apart in each course including cost of materials, abour, curing complete as per specifications.No. KBS 5.1.13	Cum	21.60	4396.35	Rupees Four Thousand Three hundred Ninty Six & paise thirty five only

H·E· Shashikala

(Contractor)

	EXTRA ITEM				
1	Supplying DOUBLE WALL CORRUGATED (External annul corrugated & smooth internal wall) (DWC) of class SN 8, piping system in accordance with IS 16098 (Part-2) and conveying to worksite, rolling and lowering into trenches, laying true to line and level and perfect linking at joints, testing and commissioning, including loading and unloading at both destinations and cuts of pipes wherever necessary including jointing with all labour, lead & lifts, including encasing the pipes alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation etc. complete and giving necessary hydraulic test to the required pressure as per ISS (BWSSB SR 2017-18,P no 26, Code no 4295 & 4296)Do-Pipes of SN 8, 300 mm dia.	Rmt	301	1384.95	Rupees One Thousand Three hundred Eighty four & paise Ninty five only

H. E. Shashikala

Signature of contractor

Executive Engineer
Yelahanka Division, BBMP